

## Work sheet

### A locus of points – Loci of the centres of circles

**Task 1.** Find the locus of the centres of all circles with given radius that pass through given point S.

SOLUTION:

**Task 2.** Find the locus of the centres of all circles with given radius that touch given line p.

SOLUTION:

**Task 3.** Find the locus of the centres of all circles that touch given line p at given point T.

SOLUTION:

**Task 4.** Find the locus of the centres of all circles that touch two given intersecting lines.

SOLUTION:

**Task 5.** Find the locus of the centres of all circles that touch two given parallel lines.

SOLUTION:

**Task 6.** Find the locus of the centres of all circles that touch a given circle at given point T.

SOLUTION:

**Task 7.** Find the locus of the centres of all circles with given radius that touch a given circle.

SOLUTION: